

9811.1 Del Norte County

Contents

	Del Norte County Sensitive Sites Map	2
1-105-A	Off Shore Rocks Near Pyramid Point	3
1-110-A	Smith River Mouth and Lagoon	6
1-115-A	South Spit Smith River	9
1-125-A	Lake Tolowa	12
1-130-A	Southwest Seal Rock	15
1-135-A	Point Saint George	18
1-140-A	Castle Rock National Wildlife Refuge	21
19811.12	Crescent City Harbor Geographic Response Plan	24
1-145-A	Elk Creek & Crescent City Harbor	31
1-150-A	Battery Point	34
1-155-A	Del Norte Coast Redwoods State Park	37
1-160-B	Scat Beach & Jefferson National Forest	40
1-165-C	Last Chance Rock	43
1-170-A	Footsteps Rocks to Radar Station Rocks	46
1-175-A	Wilson Creek	49
1-180-A	Klamath River Mouth and Estuary	52
1-185-A	Flint Rock & White Rock	55
9811.2	Del Norte County Operational Divisions	58

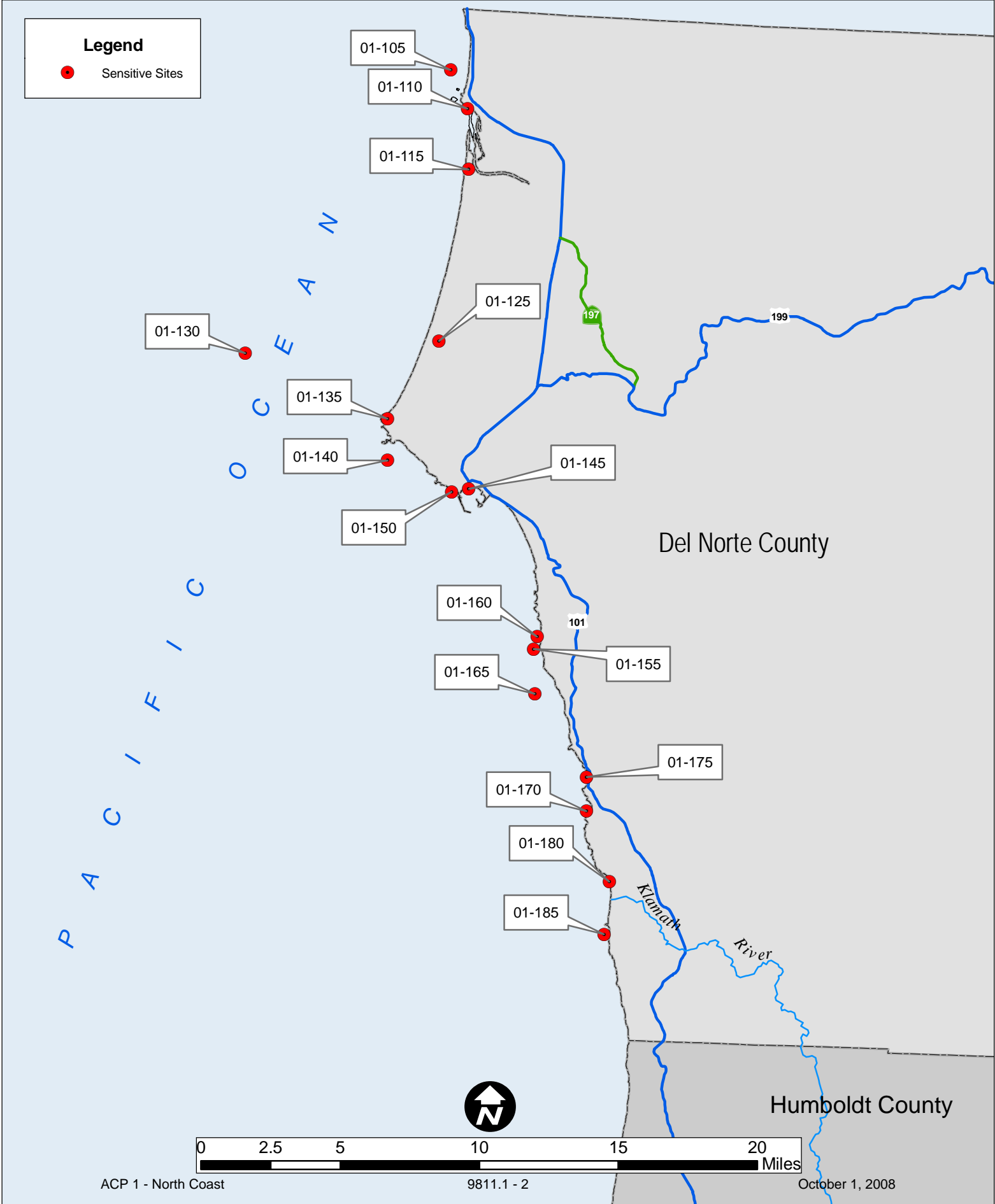


ACP 1 DEL NORTE COUNTY SENSITIVE SITES



Legend

● Sensitive Sites



1-105 -A Site Summary- Off shore rocks near Pyramid Point**1-105 -A**

County: **Del Norte**
USGS Quad: **Smith River**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18602**

Latitude N
41 58' N
Longitude W
124 13'W

Last Page Update :

SITE DESCRIPTION:

The site has open sandy beaches and rocky shoreline adjacent to a number of off shore rocks that vary in size from small boiler rocks to small islands that provide nesting and roosting habitat for birds and haul out locations for marine mammals. The terrain includes wave cut platforms, exposed rocky headlands and numerous offshore rocks especially in the vicinity of Pyramid Point.

Response category 6. Site where immediate response is probably not necessary. Minimal damage would occur, but this does not preclude the need to clean after impacts.

SEASONAL and SPECIAL RESOURCE CONCERN

Off shore rocks provide roosting and nesting habitat for birds and haul out locations for marine mammals. Care should be taken so that response activities do not flush wildlife from these areas. The off shore rocks have cultural significance for local tribes.

RESOURCES OF PRIMARY CONCERN

Roosting and potential nesting habitat for seabirds.

Seabird rookeries (03-09) incl.: Pelagic cormorant, Western gull, Pigeon guillemot, Tufted puffin (CSC).

Prince Island: Snowy egret, Black-crowned night heron nest sites. Rhinoceros auklet, Double crested cormorant (CSC)
all (01-12).

Aleutian Canada Goose (FT)(10-11;02-04), Marbled murrelet (SE,FT)(01-12) on nearshore waters. Snowy plover (FT)(01-12) in dunes. Brown pelican (FE,SE)(04-11). Raptors incl. Peregrine falcon (FE,SE) and Osprey (CSC); both (01-12).

Steelhead (FSS) and Coastal cutthroat trout (CSC): spawning runs (10-06)

Redtail surfperch spawning (04-06)

Dungeness crabs in nearshore area

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes. Contact Smith River Rancheria, Redwood Nat'l and CA State Parks personnel.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
C		Smith River Rancheria	(707) 487-9255
O		Redwood National & State Parks	(707) 464-6101
E	Ned Burgess	Salmon Harbor Resort	(707) 487-3341
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-105 -A Site Strategy - Off shore rocks near Pyramid Point

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18602

1-105 -A

Latitude N

Longitude W

41 58' N

124 13'W

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 1-105.1 Objective: Minimize impacts to shoreline in impractical response locations

No on site strategy will be successful under prevailing conditions.

Offshore dispersants should be considered.

Off site skimming should be considered.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
1-105.1	0	0	0	0	0	0	0	0	0		

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go north on U.S. Hwy 101 through Crescent City. U.S. Hwy 101 parallels the shoreline and access is generally obvious. The northern most public beach access is at Pelican Point State Beach which is about 1/4th mile south of the Oregon border. Foot path access can be found at Clifford Kamph Memorial Park on the HWY 101 at milepost 44.69, at the end of Wavecrest road, and inside the White Rock Resort at 16800 HWY 101N. Drive on access across private gated property exists at the end of Gilbert Way. The site has open sandy beaches and rocky shoreline adjacent to a number of off shore rocks that vary in size from small boiler rocks to small islands that provide nesting and roosting habitat for birds and haul out locations for marine mammals.

LAND ACCESS: Foot access is generally available along the shoreline.

WATER LOGISTICS: Access to the near shore is hazardous do to the many rocks.

Limitations: depth, obstruction

Launching, Loading, Docking and Services Available: Boat Launching is available to the south at the Ship Ashore Resort.

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Staging for a local response is available at the Clifford Kamph Memorial Park and the Ship Ashore Resort.

COMMUNICATIONS PROBLEMS: Cell phones are hit and miss.

ADDITIONAL OPERATIONAL COMMENTS:



1-110 -A Site Summary- Smith River Mouth and Lagoon**1-110 -A**County: **Del Norte**
USGS Quad: **Smith River**Thomas Guide Location
CA Road Atlas
NOAA Chart: **18602**Latitude N
41 57' N
Longitude W
124 12'30"W

Last Page Update : 7/1/1996

SITE DESCRIPTION:

The Smith River mouth & the associated estuary provide good habitat for numerous species of fish and wildlife during all seasons of the year. Oil that threatens to enter the estuary from an off shore spill should be contained as close to the mouth as is feasible under the prevailing on scene conditions at the time of the incident. The site has a tidal inlet that is generally open all year. Substrate consists of medium to course grained sand on beach face. The back beach is pebble and cobble and can collect some driftwood in moderate amounts on south spit but only low amounts on north side. No natural oil/tar is found at this site.

Response category 2. Easily accessed site. Distance (20+ miles) from pre-staged equipment.

SEASONAL and SPECIAL RESOURCE CONCERN

Off shore rocks provide roosting and nesting habitat for birds and haul out locations for marine mammals. Care should be taken so that response activities do not flush wildlife from these areas. The off shore rocks have cultural significance for local tribes.

RESOURCES OF PRIMARY CONCERN

Smith River has an extensive estuary where oil should be excluded from entering when ever possible. The wetlands and associated wildlife are dynamic and highly vulnerable to damage from oil and response activities.

Shorebirds, coastal seabirds, wading birds, waterfowl including Common loon (CSC), Western grebe, Double crested cormorant (CSC)(01-12)

Aleutian Canada goose (FT)(10-11;02-04).

California brown pelican (SE)(04-11)

Marbled murrelet (SE,FT)(01-12)

Raptors including Bald eagle (SE,FT), Peregrine falcon (FE,SE), and Osprey (CSC) all (01-12)

Harbor seals and pups swim inside river mouth

Anadromous salmonids includes Coho (FT), Chinook (CSC) salmon, Steelhead (FSS) and Coastal cutthroat (CSC) trout:

 spawning runs (four species combined) (08-06)

 juveniles/smolt (four species combined) (02-08) juveniles may use estuary year round

Tidewater goby (FE)(01-12)

Kelp beds offshore

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes. Contact Tolowa Smith River Rancheria, Redwood Nat'l and State Parks.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		Smith River State Park Campgrounds	(707) 458-3018
C		Smith River Rancheria	(707) 487-9255
O		Redwood National & State Parks	(707) 464-6101
E	Ned Burgess	Salmon Harbor Resort	(707) 487-3341
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-110 -A Site Strategy - Smith River Mouth and Lagoon

1-110 -A

County and Thomas Guide Location

NOAA CHART

Latitude N

Longitude W

CA Road Atlas Del Norte

18602

41 57' N

124 12'30"

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Out flowing water from the Smith River can create hazardous currents during storm and spring flood events.

SITE STRATEGIES

Strategy 1-110.1 Objective: Observe on-scene conditions before assigning response equipment

Recommend an USCG overflight or on-scene site visit before sending equipment to this tidally dynamic location. The River mouth has historically been many miles south of the present opening to the Pacific.

Strategy 1-110.2 Objective: Bring oil to shore for collection on incoming tides

Anchor a boom on the back of the spit near the mouth and divert oil to the low current pocket on the eastern shore at the boat ramp.

Strategy 1-110.3 Objective: Diversion boom to bring oil to shore and minimize spread in the estuary on incoming tides.

Set an anchor mid channel and place a "V" of boom to divert oil to low current pockets on the shores near the entrance.

Strategy 1-110.4 Objective: Exclude oil from rocky shore on the North side of the inlet.

Line the north west shore with boom to prevent oiling of rocky shore.

Strategy 1-110.5 Objective: Exclude oil from rocky shoreline using pompoms.

Line rocky tidal area with pompoms.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
1-110.1		0	0	0					1 Helicopter		
1-110.2	1500	0	0	0	12 22 lb danforth	1	2	0		3	2
1-110.3	0	6000	0		30 22 lb danforth	1	1	0		3	2
1-110.4	0		1000		8 22 lb danforth	1	1	0	0	3	2
1-110.5	0	0	0	0	6 22 lb Danforth	1	1	0	1E+ PomPoms	3	2

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go north on U.S. Hwy 101 through Crescent City to 'Mouth of Smith River' Road MP 43.17 (about .5 mile north of Ship Ashore Resort). Turn left and go to end of road. The road ends at the mouth of the Smith River. Best access for response is from Ship Ashore Resort on U.S. 101 @ Chinook Way. A small boat ramp is available behind the hotel and restaurant that overlook the river. Access also available at the Salmon Harbor Resort and Westbrook Gravel operation. The Smith River mouth & the associated estuary provide good habitat for numerous species of fish and wildlife during all seasons of the year. Oil that threatens to enter the estuary from an off shore spill should be contained as close to the mouth as is feasible under the prevailing on scene conditions at the time of the incident.

LAND ACCESS: Large trucks can access this site.

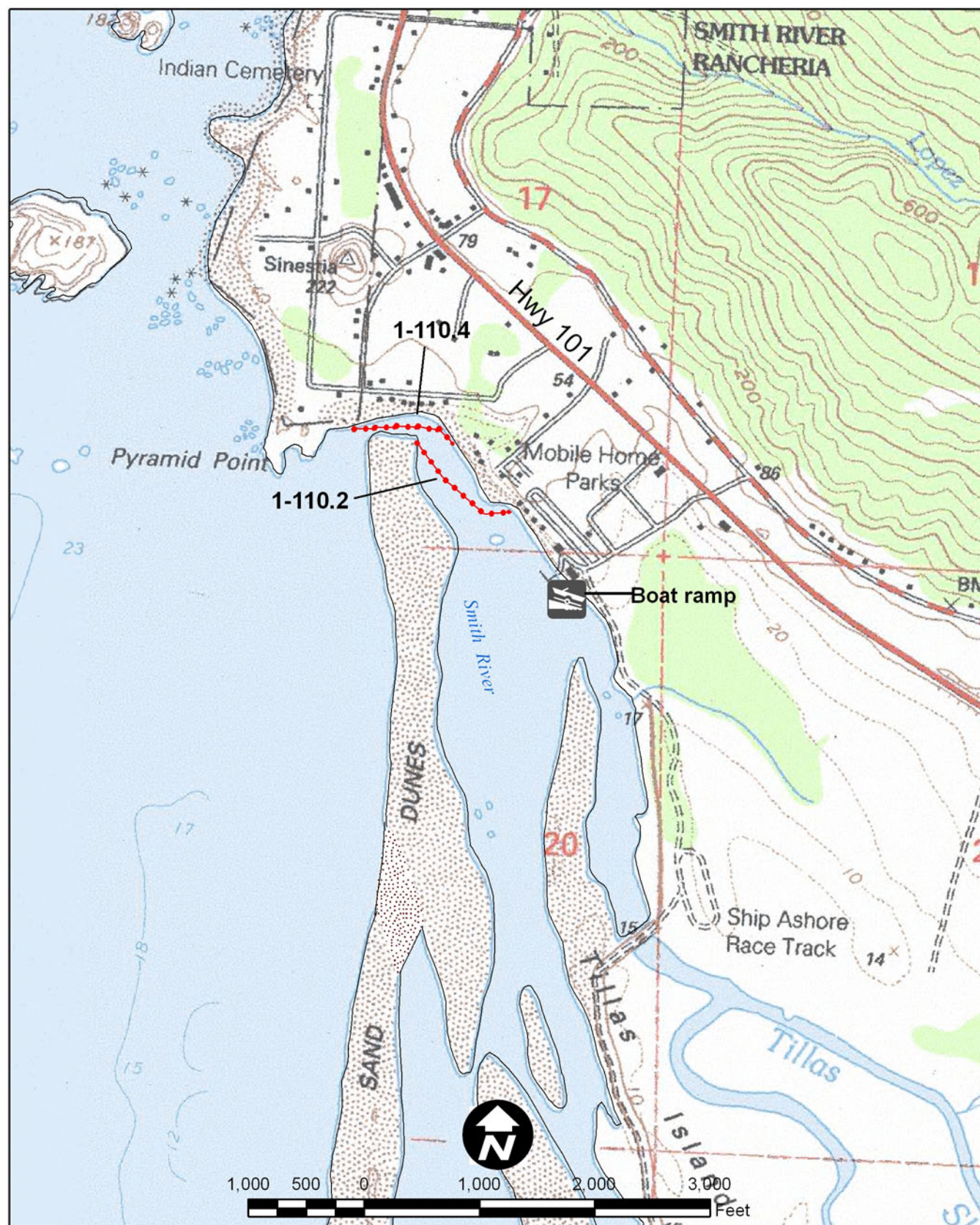
WATER LOGISTICS: Local boat ramps are only suitable for shallow draft skiffs
Limitations: depth, obstruction
Launching, Loading, Docking
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

A medium sized staging area may be available at the Ship Ashore Resort. The area has a restaurant, hotel, public phones. Water and electricity may be available for emergency use.

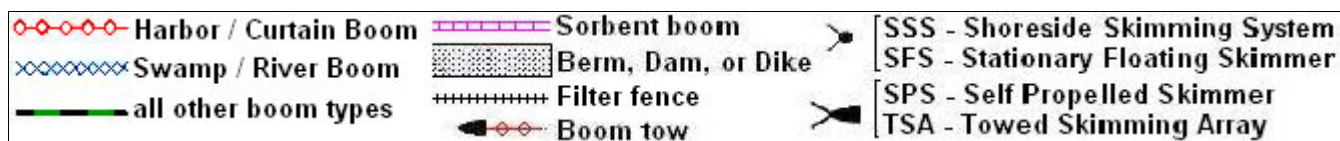
COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CDFG-OSPR & USCG Site: 1-110 Name: Mouth of Smith River

Kris Wiese (OSPR) & Jo Sanders (OSPR) Date: Aug. 13, 2008



1-115 -A Site Summary- South Spit Smith River**1-115 -A**

County: **Del Norte**
USGS Quad: **Smith River**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18602**

Latitude N
41 54' N
Longitude W
124 12'W

Last Page Update : 7/1/1996

SITE DESCRIPTION:

The Smith River mouth & the associated estuary provide good habitat for numerous species of fish and wildlife during all seasons of the year. Oil that threatens to enter the estuary from an off shore spill should be contained as close to the mouth as is feasible under the prevailing on scene conditions at the time of the incident. Fine to medium grained sand beach.

Response category 6. Site where immediate response is probably not necessary. Minimal damage would occur, but this does not preclude the need to clean after impacts.

SEASONAL and SPECIAL RESOURCE CONCERN

Off shore rocks provide roosting and nesting habitat for birds and haul out locations for marine mammals. Care should be taken so that response activities do not flush wildlife from these areas. The off shore rocks have cultural significance for local tribes.

RESOURCES OF PRIMARY CONCERN

Smith River has an extensive estuary where oil should be excluded from entering, when ever possible. The wetlands and associated wildlife are dynamic and highly vulnerable to damage from oil and response activities.

Harbor seals and pups swim inside river mouth

Surfperch spawning (04-06)

Surfsmelt spawning (04-07)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes. Contact Redwood Nat'l and State Parks.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		Smith River State Park Campgrounds	(707) 458-3018
O		Redwood National & State Parks	(707) 464-6101
C		Smith River Rancheria	(707) 487-9255
E	Ned Burgess	Salmon Harbor Resort	(707) 487-3341
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-115 -A Site Strategy - South Spit Smith River

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18602

1-115 -A

Latitude N

Longitude W

41 54' N

124 12'W

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Beach is steep and short in some areas.

SITE STRATEGIES

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go north on U.S. Hwy 101 through Crescent City to Northcrest Drive (M.P. 27.01). Turn left at the signal light and continue for 6.1 miles. (Note that Northcrest Dr. becomes 'Lake Earl Drive' after ~2 miles). Turn left on Lower Lake Road and go 2.5 miles and then turn left onto Kellogg Road. Continue on Kellogg Road to its end at the beach. Smith River spit is accessible by 4WD by going north on the beach. The Smith River mouth & the associated estuary provide good habitat for numerous species of fish and wildlife during all seasons of the year. Oil that threatens to enter the estuary from an off shore spill should be contained as close to the mouth as is feasible under the prevailing on scene conditions at the time of the incident.

LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction

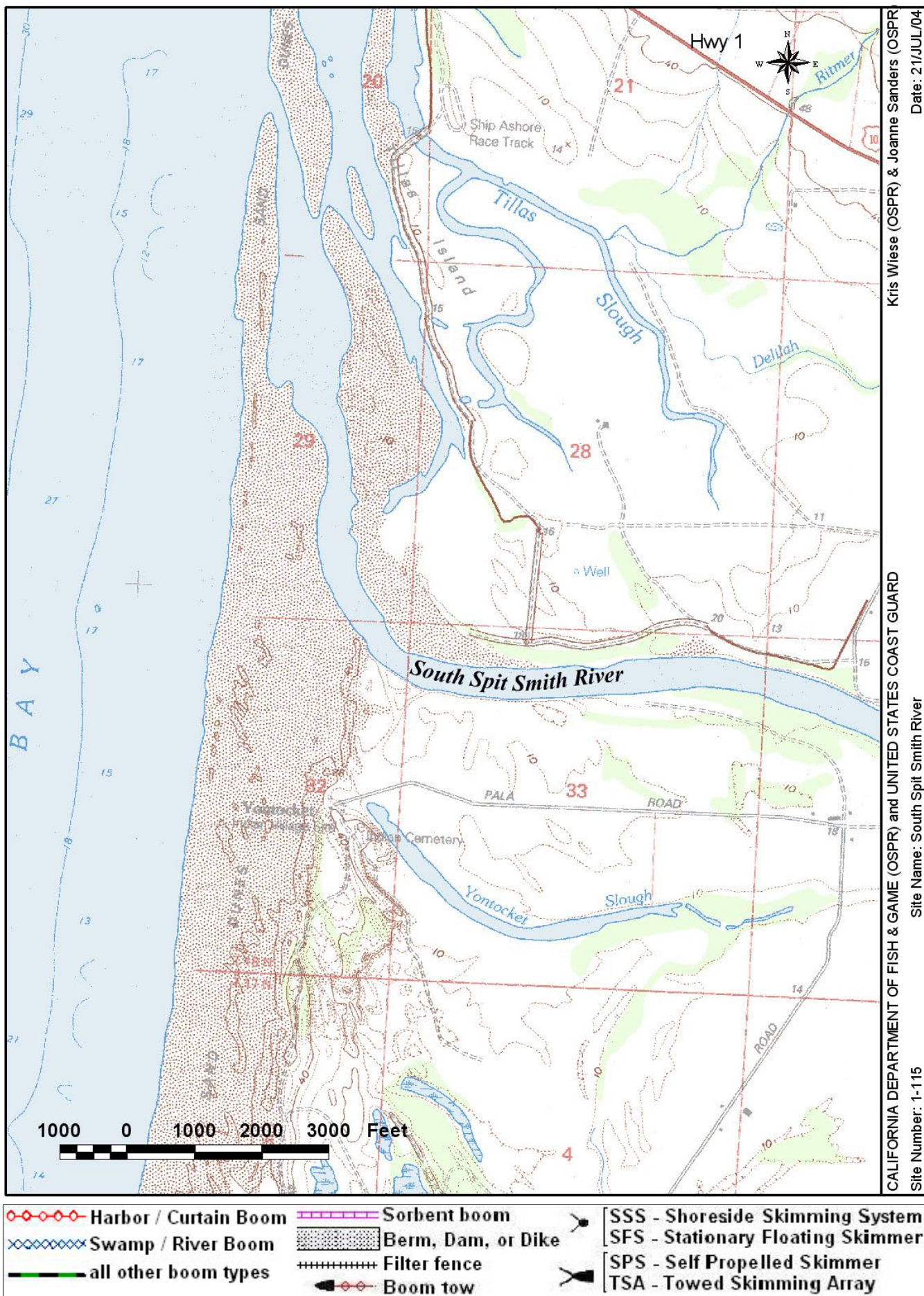
Launching, Loading, Docking

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



County: **Del Norte**
USGS Quad: **Crescent City**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18603**

Latitude N Longitude W
41 49' 30" 124 13"

Last Page Update :

SITE DESCRIPTION:

Lake Tolowa is part of a 5500 acre lake that is generally closed to the marine environment by a sand spit that blocks the mouth most of the year. The mouth will be opened naturally by rainfall after it has flooded many local residence, so the mouth routinely is breeched. The inland part of the lake is called Lake Earl and is managed as a wildlife preserve by the Department of Fish & Game. Tidal inlet (seasonal)

Medium to fine grain sand

Dunes

Wetland habitat within lake

SEASONAL and SPECIAL RESOURCE CONCERN

This inlet is periodically breached during late winter or early spring by Del Norte county or DFG for flood control and/or wildlife management purposes.

RESOURCES OF PRIMARY CONCERN

Wetlands

California brown pelican (SE)(04-11), Snowy plover (FT)(01-12)

Resident raptors incl. Bald eagle (SE,FT); Peregrine falcon (SE); Osprey (CSC) all (01-12)

Wintering ground for Pacific Flyway waterfowl and non-waterfowl species

Resident waterfowl, shorebirds, wading birds (01-12)

Coots

Anadromous salmonids

Coho (FT) and Chinook (CSC) salmon, Steelhead (FSS) and Coastal cutthroat (CSC) trouts:

- spawning runs (08-06)

- juveniles/smolts (02-08)

Federally listed Tidewater goby is found here.

Three spined stickleback are plentiful here.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T		DFG Lake Earl	(707) 464-2523
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-125 -A Site Strategy - Lake Tolowa

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18603

1-125 -A

Latitude N Longitude W

41 49' 30 124 13"

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Sand may be on the paved road through the dunes.

SITE STRATEGIES

Strategy 1-125.1 Objective: Arrest oil spreading into Lake Tolowa on an incoming tide when the mouth is open to tidal exchange.

Boom across the entrance so that oil will beach on the southern shore near the entrance of the lake.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
1-125.1	1000	0	0	0	10 25 lb Danforth with chain.	0	0	0	0		

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go north on U.S. Hwy 101 through Crescent City to Northcrest Drive (M.P. 27.01). Turn left at the signal light and continue for 6.1 miles. (Note that Northcrest Dr. becomes ' Lake Earl Drive' after ~2 miles). Turn left on Lower Lake Road and go 2.5 miles and then turn left onto Kellogg Road. Continue on Kellogg Road to the Pacific Shores subdivision near the end of Kellogg Road). Turn left and continue to the third right turn. Go right until the road paralleling the beach dunes is reached. Turn left and continue until road ends near inlet. Contact DFG's Tim Williamson (707) 464-2523 for information on the area around the Pacific Shores subdivision. Lake Tolowa is part of a 5500 acre lake that is generally closed to the marine environment by a sand spit that blocks the mouth most of the year. The mouth will be opened naturally by rainfall after it has flooded many local residence, so the mouth routinely is breached. The inland part of the lake is called Lake Earl and is managed as a wildlife preserve by the Department of Fish & Game.

LAND ACCESS: Large trucks can turn around at the end of Kellogg Road.

WATER LOGISTICS:

Limitations: depth, obstruction

Launching, Loading, Docking

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Staging for a local response is available at the end of Kellogg Rd. NO utilities or services are available, just parking space.

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



1-130 -A Site Summary- Southwest Seal Rock**1-130 -A**

County: **Del Norte**
USGS Quad: **Crescent City**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18603**

Latitude N Longitude W
41 48' 50" 124 21'

Last Page Update :

SITE DESCRIPTION:

Southwest Seal Rock is 8.5 miles west northwest of Crescent City and 5.25 miles off the coast at Point Saint George Offshore rock.

SEASONAL and SPECIAL RESOURCE CONCERN**RESOURCES OF PRIMARY CONCERN**

Steller sea lion (FT)

pupping season (05-07) particularly sensitive during this period
haul out for juveniles and adults (01-12)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES**KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)**

Type	Name / Title	Organization	Phone
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-130 -A Site Strategy - Southwest Seal Rock

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18603

1-130 -A

Latitude N Longitude W

41 48' 50 124 21'

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

No access.

SITE STRATEGIES

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

No access. Rock is appx. 5.25 mi. offshore and lies along Pt. St. George Reef. Southwest Seal Rock is 8.5 miles west northwest of Crescent City and 5.25 miles off the coast at Point Saint George

LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction

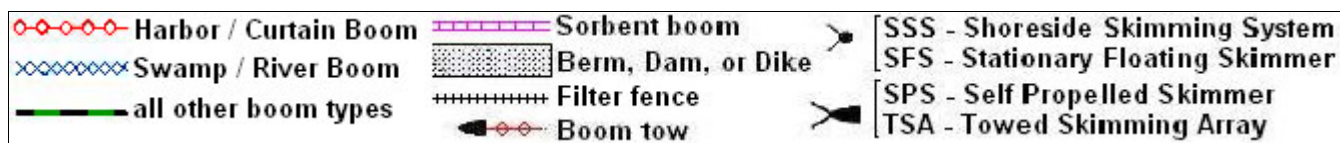
Launching, Loading, Docking

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



County: **Del Norte**
USGS Quad: **Crescent City**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18603**

Latitude N
41 47'
Longitude W
124 15'

Last Page Update :

SITE DESCRIPTION:

The Point St. George site includes an offshore rock and the rocky headlands and beaches adjacent to the rock. The site consists of a large offshore rock with associated features that include:

Rocky headland.

Wave-cut platforms.

Gravel beaches.

Response category 7. Conventional response is not realistic based upon current technology.

SEASONAL and SPECIAL RESOURCE CONCERN**RESOURCES OF PRIMARY CONCERN**

Large rocky inter tidal areas surrounding the wave-cut platforms

Seabird rookeries (02-10): Black oystercatchers, Western gulls, Pelagic cormorants, Pigeon guillemots Fork-tailed storm petrel (CSC).

Marbled murrelets (SE,FT)(01-12).

Harlequin ducks (CSC)(10-04).

Plovers and Turnstones not breeding but present.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES**KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)**

Type	Name / Title	Organization	Phone
T		US Fish and Wildlife Service	(707) 822-7201
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-135 -A Site Strategy - Point St. George

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18603

1-135 -A

Latitude N Longitude W

41 47' 124 15'

Last Page Update :

CONCERNS and ADVICE to RESPONDERS:

HAZARDS and RESTRICTIONS:

High energy shoreline, extreme currents, offshore rocks, unpredictable waves.

SITE STRATEGIES

This site is best protected by preventing the oil from arriving here, when possible. Off site response options including dispersants should be considered.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go north through Crescent City on U.S. Hwy 101 to Northcrest Drive M.P. 27.010. Take northcrest Drive. Turn left on Washington Blvd. Washington BLVD turns into Radio Road. Continue on Radio Road to the end. Vehicular access to the beach is possible through a locked gate at the end of Radio Road N41.78367 W124.25127. (Contact Del Norte county Sheriff's Dept 707-464-4191). The Point St. George site includes an offshore rock and the rocky headlands and beaches adjacent to the rock.

LAND ACCESS: Locked drive on access to the beach.

WATER LOGISTICS:

Limitations: depth, obstruction

Launching, Loading, Docking

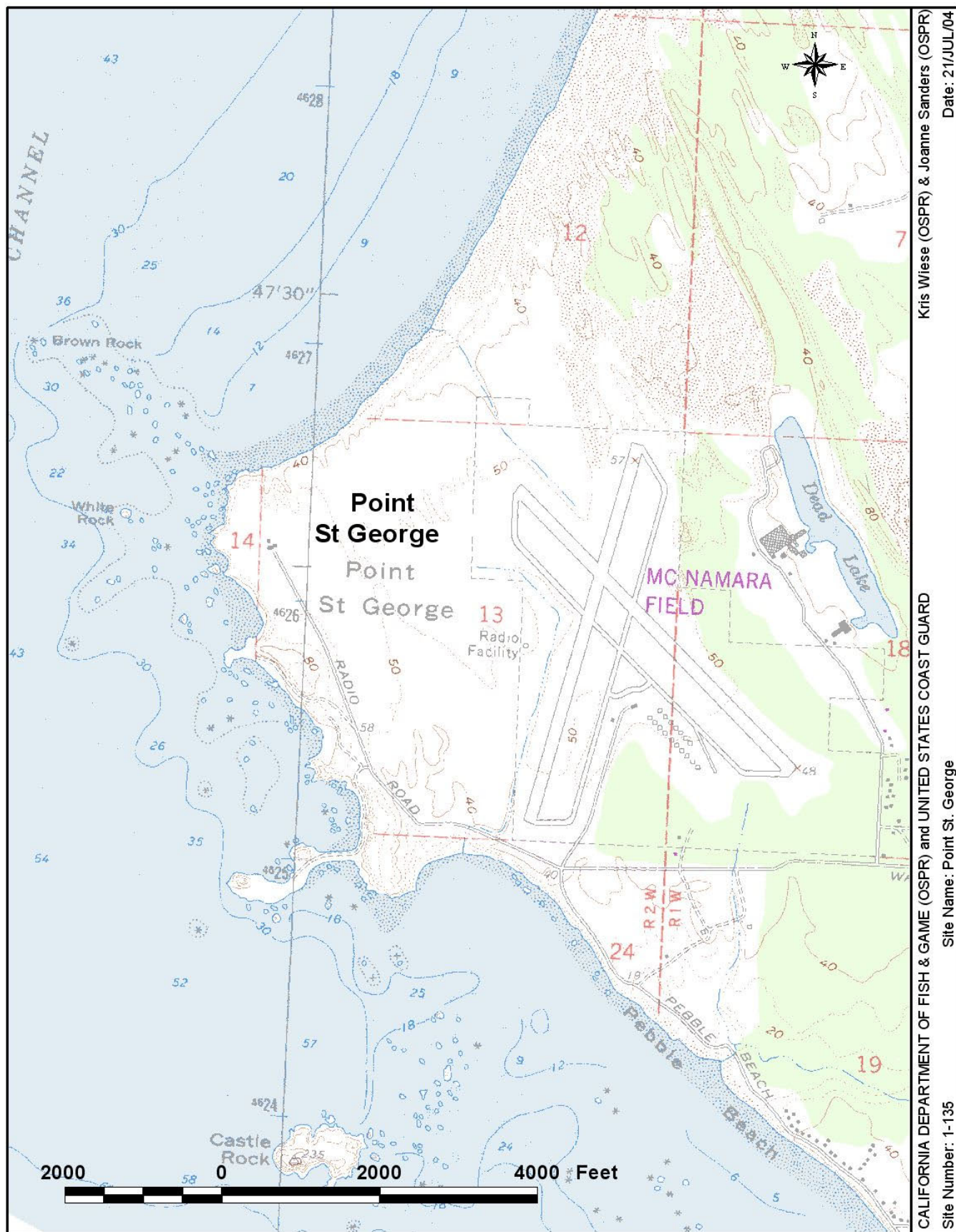
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Staging for a local response is available at the end of Radar Station Rd.. NO utilities or services are available, just parking space.

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD

Kris Wiese (OSPR) & Joanne Sanders (OSPR)

Date: 21/JUL/04

Site Name: Point St. George

Site Number: 1-135

○—○ Harbor / Curtain Boom
 ××××× Swamp / River Boom
 — all other boom types

■ Sorbent boom
 ■ Berm, Dam, or Dike
 + Filter fence
 — Boom tow

SSS - Shoreside Skimming System
 SFS - Stationary Floating Skimmer
 SPS - Self Propelled Skimmer
 TSA - Towed Skimming Array

1-140 -A Site Summary- Castle Rock National Wildlife Refuge**1-140 -A**

County: **Del Norte**
USGS Quad: **Crescent City**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18603**

Latitude N
41 47'
Longitude W
124 15'

Last Page Update :

SITE DESCRIPTION:

Castle Rock National Wildlife Refuge is a half a mile offshore from Crescent City in northern California. This coastal rock covers approximately 14 acres, and rises steeply 335 feet above sea level. Offshore rock. Response category 5. Habitat damage could result from intrusive response. Trustees recommend against on-site response.

SEASONAL and SPECIAL RESOURCE CONCERN

CRNWR is the second largest nesting seabird colony south of Alaska (after the Farallon Islands). The estimated number of seabirds using Castle Rock has been as high as 150,000. It also has the largest breeding population of common murres in California; the latest estimate for common murres was 98,000 in 1986.

RESOURCES OF PRIMARY CONCERN

Several protected species use this rock as a protected area for roosting, pupping, and rearing young.

Aleutian Canada goose (FT)(10-11;02-04) use rock as roosting area.

California brown pelican (SE)(04-11).

Peregrine falcon (SE)(01-12).

Rhinoceros auklet and Tufted puffins both (CSC)(01-12).

seabird rookeries (03-09): Common murre, Pigeon guillemot, Leach's storm petrel, Cassin's auklet, Western gull, Brandt's and Pelagic cormorants.

Steller's sea lion (FT)(01-12).

elephant seals haul out (01-12), pupping (05-07).

Pacific harbor seal adults, sub adults, juveniles haul out (01-12).

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES**KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)**

Type	Name / Title	Organization	Phone
T		US Fish and Wildlife Service	(707) 822-7201
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
T	Eric Nelson Reserve Manager	Castle Rock Wildlife Refuge	(707) 733-5406
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-140 -A Site Strategy - Castle Rock National Wildlife Refuge

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18603

1-140 -A

Latitude N

Longitude W

41 47'

124 15'

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Access and/or response is not allowed without permission from USFWS refuge manager.
This is a US Fish and Wildlife Service Wildlife Refuge.

SITE STRATEGIES

Table of Response Resources

strategy	harbor	swamp	Other	sorb	Anchoring		Boom	Skiffs	Skimmers	Special Equipment or comment				staff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No	Type	No	and	kinds	deploy	tend

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

CONTACT REFUGE MANAGER IMMEDIATELY. Boat/avon access is extremely difficult, and not permitted without refuge manager's permission. This rock may be observed from the west end of Washington Blvd. In Crescent City. Castle Rock National Wildlife Refuge is a half a mile offshore from Crescent City in northern California. This coastal rock covers approximately 14 acres, and rises steeply 335 feet above sea level.

LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction

Launching, Loading, Docking

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



9811.12 Crescent City Harbor Geographic Response Plan

Field level plan only

A removable field guide to be used during an oil spill response. Pages 31 through 40 of the North Coast ACP.

CONTENTS:

Important Information to Record.....	pg 31
Introduction to Crescent City Harbor.....	pg 32
Resources at Risk.....	pg 32
Likely Oil Threat.....	pg 32
Likely Oil Trajectory.....	pg 32
Recommended Spill Response.....	pg 33
Useful Contacts (Table 1).....	pg 34
Tabular Response Recommendations (Table 2).....	pg 35
Harbor Access Map. (Figure 1).....	pg 37

IMPORTANT INFORMATION TO RECORD- Please complete this page and make a copy for the situation unit before going into the field

Spill Name:_____

Your name:_____Organization_____

Phone_____Cell_____Pager_____Radio call sign_____

Your Assignment_____

EMERGENCIES: Highway, sheriff, police, medical.....911

location or person	phone #	cellular #	pager #
your supervisors name			
command center			
operations			
planning			
logistics			
safety officer			

Questions regarding this plan should be referred to Kris Wiese at 707.441.5762 or FAX 707.441.5753

Crescent City Harbor Geographic Response Plan

INTRODUCTION

Crescent City Harbor is located in California, just 17 miles south of the Oregon border and 280 miles north of San Francisco. The approximately one mile long harbor is formed by a natural indentation in the coastline and is protected by manmade breakwaters (figure 1). The ocean entrance to the harbor is from the SSE. A boat basin with 240 berths and temporary mooring has been formed within the harbor. Most harbor and channel depths are at about -12 to -16 MLLW depth. Businesses located in the harbor include two fish processing plants, a marine repair facility with a synchro-lift, a USCG dock and vessel, and a fueling facility.

Water circulation in Crescent City Harbor is almost entirely tidally driven. Only a very small amount of freshwater enters the harbor from Elk Creek located at the northern most part of the harbor.

U. S. Highway 101 is the main highway traffic artery serving the Crescent City area.

There is a small airport at Crescent City capable of handling twin engine turbo- prop type aircraft. It is served by United Express Airlines.

RESOURCES AT RISK

Natural resources at risk are birds, primarily wading birds, waterfowl, common loons, and western grebes. Several species listed as threatened or endangered such as California brown pelican and osprey are found in the harbor during some seasons of the year. Herring spawn on rocks in the harbor generally between January and March.

Economic resources at risk include a commercial fishery for herring that lands about 30 tons of herring annually, Abalone International, an aquaculture facility located on Whaler Island, and Undersea Gardens, a commercial aquarium. Abalone International obtains it's water from intakes located in the outer harbor near Whaler Island, and the aquarium obtains it's water from intakes located in the boat basin. Manmade structures consisting of piers, docks, and rip-rap, and vessels are also at risk from oiling.

OIL THREAT

Oiling of resources in Crescent City harbor could result from one of several possible incidents. The most likely include an accident during a fueling operation; the sinking of a vessel moored in the harbor; an accident on the approach to the harbor such as a vessel grounding or colliding with the jetty or a close offshore rock. Oil spilled from these incidents would be primarily diesel and some small amount of lubricating oil. A more remote possibility is oil entering the harbor from an offshore incident involving a large commercial ship. Oil in this case would likely be a heavy oil such as crude oil or bunker C type fuel oil.

OIL TRAJECTORY

Due to the small size of Crescent City harbor and it's large tidal prism, it is likely that the entire harbor will receive some degree of oiling from any moderate sized incident. This has been the result in incidents that have occurred here in the past. Most recently, during the unfortunate grounding of the *F/V Paul C* (December, 2000) just outside the north jetty, diesel fuel was washed over the jetty by rough sea conditions and also passed beneath the concrete cap and through the rip-rap that makes up the jetty. Diesel fuel pooled in amounts recoverable by sorbent boom on the harbor side of the jetty. A fuel sheen resulting from this incident was observed on the water in nearly all areas of the harbor.

Oranges were used as drogues to simulate oil that might be spilled from a vessel incident near Steamboat Rock and another just inside the harbor about midway between the tips of the two jetties. Strong southerly winds were blowing at the time of the simulation with gusts to 35 knots. Oranges placed near Steamboat rock were blown north towards Battery Point, most stranding on the isthmus that joins the point to the mainland and some being carried over it and deposited on outer beaches near Third Street.

Oranges placed in the harbor were blown north towards Howe Drive, eventually stranding just west of the entrance to Elk Creek. Some were carried a small distance into Elk Creek.

RECOMMENDED SPILL RESPONSE

(See Table 2)

The first response in any fuel spill must be to deal with human health and safety issues. It is not the point of this plan to describe what those should be, but rather to deal with control of the spilled product once those issues have been handled.

It is also not the point of this plan to instruct responders to carry-out proper notifications. It is assumed that proper notification of OES, OSPR, USCG, and other responsible persons will have been done before this plan is initiated.

Spills inside the harbor

First response should be to stop the source. If an accident occurs during fueling at the citizens dock fuel facility, the fuel source should be shut down by removing power from the pump and closing valves in the fuel spill line. If a vessel sinks in the harbor, fuel vents should be closed by plugging, and lubrication oil containers removed from the deck.

Booming to control the spread of the spilled product should then be done by booming the perimeter of the source. Booming should also be done to protect sensitive habitat areas such as the sheltered harbor side of the rip-rap, the Elk Creek inlet, and valuable economic resources such as Abalone International's rearing pens. The boat basin entrance channel should be boomed to either contain oil spilled in the boat basin from spreading to the rest of the harbor, or boomed to keep oil in the harbor from being carried into the boat basin.

If fuel is of sufficient quantity and contained by boom, it should be recovered by skimming.

Water intakes to shore-side facilities should be shut down if there is the possibility of taking in fuel. Abalone International may want to operate the aeration system at their harbor grow-out site in order to create an up-welling and surface divergence to hold sheen away.

Spills outside the harbor

Unfortunately, due to the remoteness of the Del Norte county coast, its normally rough ocean conditions and high winds, and the lack of large oil response resources, booming to control spilled oil at its source outside the harbor is not likely to be done. If it appears that oil is likely to enter the harbor, booming should be carried out similarly to the way it would be if oil was spilled inside the harbor. Boom should be placed to defend sensitive resources. Booming should be done to reduce the amount of oil that would enter the boat basin and water intakes should be shut down.

Recovery of oil by skimming should be done as it enters the harbor. This could be done by deflecting oil to a recovery location inside the harbor. It could also be done by two vessels towing boom in a 'V' configuration with a skimmer in the apex of the boom. The vessels could maneuver inside the harbor to intercept oil as it enters the harbor.

Table 1: USEFUL CONTACTS

<i>EMERGENCIES</i>	911	911
NAME	PHONE NUMBER	24 HOUR NUMBER
Abalone International	464-6913	464-6913
Crescent City, Harbor District	464-6174	464-4191 (sheriff)
Crescent City Police Dept	464-2133	464-2133
Crescent City Public works	464-9506	464-0400
Del Norte Co. Public Works	464-7229	464-4191 (sheriff)
Del Norte Co. Sheriff	464-4191	911
State of CA, Fish and Game, Eureka	445-6493	916-445-0045
State of CA, highway patrol	464-3117	464-3177
State of CA, OSPR	(916)445-0045	(916)445-0045
Undersea Gardens Aquarium	464-3522	464-3522
U. S. CG Air Station	839-6113	839-6113
U. S. Redwood National Park And CA State Park	464-6101	464-4191 (sheriff)
U.S.C.G. Cutter Dorado	464-2172	464-2172

Table 2:
Tabular Response Summaries: Response priority, location, objective, equipment needed.
Priority 1 = first tide cycle; priority 2 = second tide cycle; priority 3 = third tide cycle.

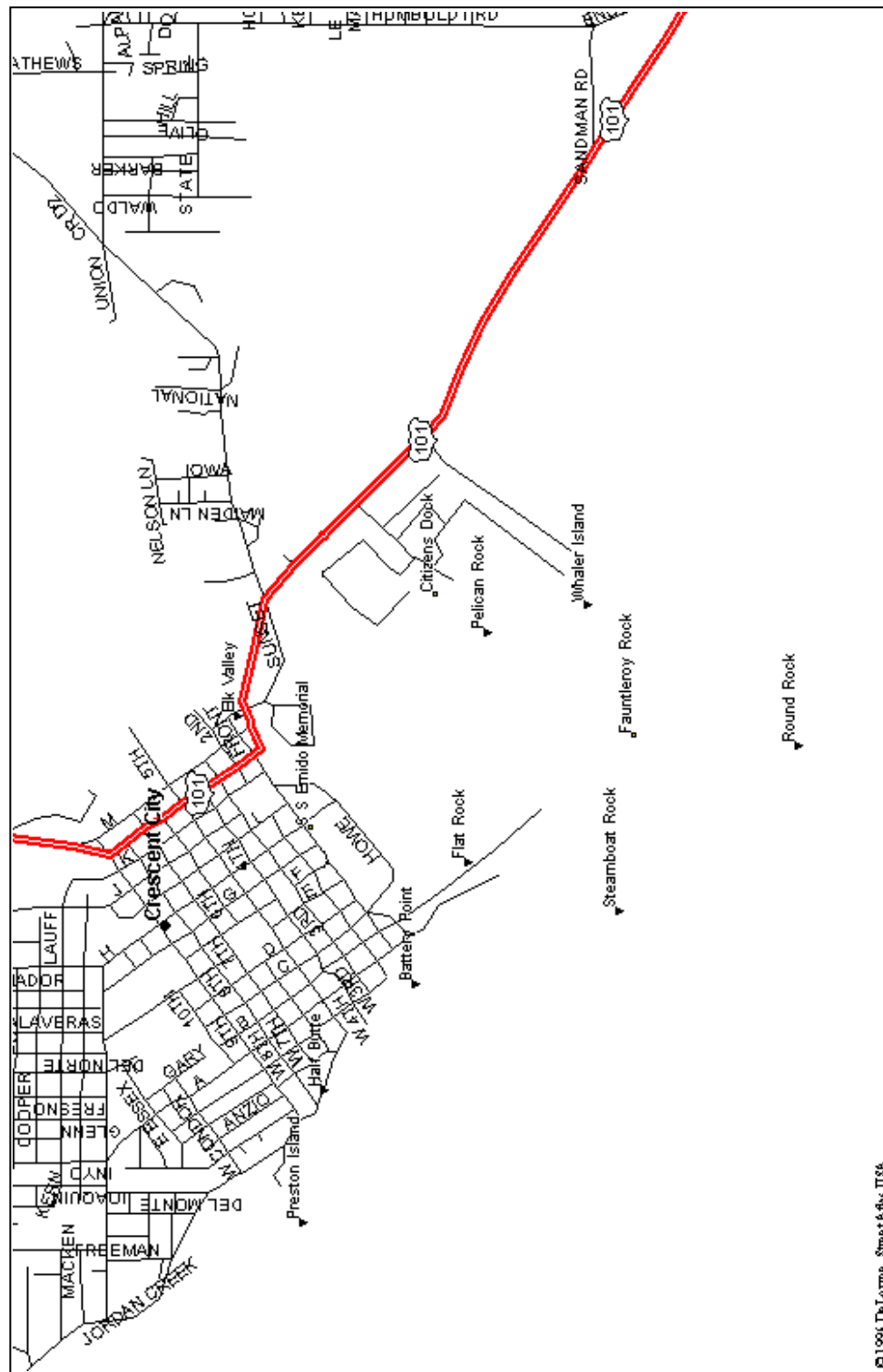
Incident	Priority	Objective	Recommended response location	Recommended equipment
Vessel Sinking in Harbor	1	Plug fuel tank vents	Dock	Plumbers plug, or any 'Homemade' plug
	1	Place harbor type boom around vessel with sorbent type boom both inside and outside of harbor boom	Dock	Harbor boom (300 feet) Sorbent boom (600 feet) Skiff
	1	Recover fuel with sorbent materials. Use skimmer or vacuum if sufficient quantity of fuel	Dock	Skimmer Sorbent pads or other sorbent
	2	Boom channel entrance to boat basin to control dispersal of fuel. Recover fuel by skimming or vacuum	Boat basin entrance	Harbor boom (300 feet) Sorbent boom (600 feet) Skimmer
	2	Do defensive booming if it appears that other resources will be oiled	Elk Creek Abalone International	Harbor boom (600 feet) Sorbent boom (600 feet) Sorbent pads
	2	Maintain boom around vessel until salvage has been completed	Dock	
	1	Secure source according to fuel facility plan	Citizens dock	
Accident During Fueling Operation	1	Wrap boom around perimeter of citizens dock fuel area. Use harbor boom with sorbent boom both inside and outside of harbor boom. Extend to full extent of fuel dispersal, if possible.	Citizens	Harbor boom (300 feet) Sorbent boom (600 feet) Skiff
	1	Begin recovery of fuel using skimmer or vacuum.	Citizens dock	Skimmer
	1	Based on wind, tide direction and stage determine time required and feasibility of defensive booming.	Elk Creek Boat Basin Abalone International	Harbor boom (300 feet) Sorbent boom (600 feet)
	2	Maintain boom around fuel facility until clean-up has been completed and repairs.	Citizens dock	

Table 2 continued.

Tabular Response Summaries: Response priority, location, objective, equipment needed.
 Priority 1 = first tide cycle; priority 2 = second tide cycle; priority 3 = third tide cycle.

Incident	Priority	Objective	Recommended Response Location	Recommended Equipment
Vessel Incident Outside Harbor Involving Light Oil	1	Based on wind, tide direction and stage be prepared to deploy boom in defensive positions.	Elk Creek Abalone International Boat Basin Harbor side of north jetty.	Harbor boom (600 feet) Sorbent boom (1200 feet) Skimmer
	1	Based upon quantity of fuel and it's containment by boom be prepared to recover it by skimming, vacuum, or sorbents in expected concentration areas	Harbor side of north jetty. Entrance to boat basin Entrance to Elk Creek	Skimmer Sorbent materials (eg. Pads)
	2	Maintain response capability until vessel has been salvaged or situation has stabilized.	All areas	
Offshore Oil Spill Involving Heavy Oil	1	Use same procedures as for light oil spilled outside the harbor	All areas	Harbor boom (600 feet) Sorbent boom (1200 feet) Skiff
	2	Mobilize equipment for on-water recovery of oil as it enters the harbor	Entrance channel area	Skimmer and lightering system equipment may be ordered from outside the area
	3	Mobilize equipment, supplies, and personnel for possible clean-up following oiling	All areas	Equipment needs to be determined by unified command planning unit and may be brought in from outside the area.

Figure 1. Harbor Access Crescent City Harbor Geographic Response Plan



1-145 -A Site Summary- Elk Creek and Crescent City Harbor**1-145 -A**

County: **Del Norte**
USGS Quad: **Crescent City**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18603**

Latitude N
41 45'
Longitude W
124 12'

Last Page Update :

SITE DESCRIPTION:

A shallow protected harbor with dredged areas to accommodate commercial fishing vessels. Elk creek has riprap north of the mouth and a sandy beach on the south. Elk creek flows into a developed commercial and recreational harbor that is famous for catching Tsunami waves. The last small Tsunami was November 16th of 2006.
Response category 1.

SEASONAL and SPECIAL RESOURCE CONCERN

A commercial fishery within the harbor exists for herring during the spawning months.

RESOURCES OF PRIMARY CONCERN

The marsh at the mouth of Elk creek forms a small estuary used by salmonids during their various migrations. The harbor is home to many fishermen who scrape their living from the sea with nets, hooks and traps when the seasons allow.

California brown pelican (FE,SE)(04-11)

Marbled murrelet (FE,SE)(01-12)

Common loon (CSC)

Elegant tern (CSC)(07-10)

Fork-tailed storm petrel (CSC)(02-10)

Rhinoceros auklet (CSC)(01-12)

Osprey (CSC)(01-12)

Wading birds and waterfowl (01-12).

Haul-outs for California sea lions and Harbor seals (01-12)

Coho salmon (FT), Steelhead (FSS) and Coastal cutthroat (CSC) trouts

- spawning runs (10-06)

- smolts/juveniles (02-08)

Herring spawning (12-03), larval and juveniles (03-08)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES**KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)**

Type	Name / Title	Organization	Phone
		Battery Point Light House	(707) 464-3089
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574
E	Chris Van Hook	Abalone International	(707) 464-6913
	Richard Young Harbor Master	Crescent City Harbor District	(707) 465-3535

ADDITIONAL SITE SUMMARY COMMENTS:

1-145 -A Site Strategy - Elk Creek and Crescent City Harbor

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18603

1-145 -A

Latitude N

Longitude W

41 45'

124 12'

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

This is a commercial area. The harbor and roads and lots surrounding it may have heavy traffic (incl. Heavy equipment) at certain times of the year.

SITE STRATEGIES

Strategy 1-145.1 Objective: Prevent oiling of sensitive sites in the harbor following the Geographic Response Plan

Elk River mouth estuary should be boomed to prevent oiling. The estuary could probably be boomed on foot at lower tides.

Strategy 1-145.2 Objective: Prevent oiling of sensitive sites in the harbor following the Geographic Response Plan

Boom the entrance channel to the boat basin to exclude incoming oil.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no	tvpe and aear	Boom boat	Skiffs punts	Skimmers No	Type	Special Equipment or comment and kinds	staff deploy	Staff tend
1-145.1	600	0	0	0	4	22lb Danforth anchors with chain	0	1	0		0	4	2
1-145.2	300	0	0	600	0		1	0	0		0	4	2

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go north on US Hwy 101 into Crescent City. Turn onto Front Street. The mouth of Elk Creek and parking areas parallel Front Street. A boat launch is available on south side near Whaler's Island Hoist or Citizen's Dock. Whaler's Island is off 101, turn W. onto Anchor Drive. Citizen's Dock is off 101, turn W. onto Citizen's Dock Road.

LAND ACCESS: Foot access to Elk Creek

WATER LOGISTICS: Large vessel launching facility available

Limitations: depth, obstruction

Launching, Loading, Docking

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Crescent City Harbor has public area's suitable for staging large quantities of equipment and personnel. Boat ramps and lifts are available for launching vessels. Restaurants and lodging and fuel are available near bye. Electricity and water may be available in some cases.

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



1-150 -A Site Summary- Battery Point

1-150 -A

County: **Del Norte**
USGS Quad: **Sister Rocks**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18603**

Latitude N
41 44' 50"
Longitude W
124 12' 05"N

Last Page Update : 7/1/1996

SITE DESCRIPTION:

Battery Point is a nearshore rock island that is accessible by foot at lower tides and inaccessible at higher tides. Battery Point Lighthouse and Museum are located at the foot of "A" Street in Crescent City, California. This is an active lighthouse that serves as a private aid to navigation. Accessible by foot only at low tide, Battery Point is currently a Maritime Museum and is operated by Del Norte County. The Cape Cod structure built of brick and granite offers visitors a look at the maritime history of the region and gives great insight to the life of a light Keeper. Worn from storms and tidal waves, this 45 foot tower and attached lean-to still function today as an important navigational aid to seaward travelers along the northern Pacific coast. The light is reputed to house a resident ghost, seen by at least six different people, who have heard its sea-booted feet slowly climbing the tower steps during storms.

SEASONAL and SPECIAL RESOURCE CONCERN

The rock and light house are largely a cultural attraction with minimal biological significance.

RESOURCES OF PRIMARY CONCERN

Marbled murrelet (FE,SE)(01-12)
-fledglings on water (07-09)
-adults (01-12) AREA OF FREQUENT SIGHTINGS
California brown pelican (FE,SE)
Harbor seals (01-12)
California sea lions (01-12)
Kelp beds (01-12)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
		Battery Point Light House	(707) 464-3089
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574
	Richard Young Harbor Master	Crescent City Harbor District	(707) 465-3535

ADDITIONAL SITE SUMMARY COMMENTS:

1-150 -A Site Strategy - Battery Point

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18603

1-150 -A

Latitude N Longitude W

41 44' 50 124 12' 05"

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Offshore rocks and kelp beds. Extreme current and high energy shoreline. This is a commercial and recreational harbor, and heavy equipment may be in operation around the area.

SITE STRATEGIES

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no tvoe and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go north on U.S. Hwy 101 into Crescent City. Turn left (W.) onto Front Street and continue to its end. Turn left (S.) and continue to parking lot at Battery Point. Boats may be launched from several locations within Crescent City harbor. (Citizen's Dock off Citizen's Dock Road exiting from U.S. Hwy 101; also at the end of Anchor Way exiting from U.S. Hwy 101). Battery Point is a nearshore rock island that is accessible by foot at lower tides and inaccessible at higher tides. Battery Point Lighthouse and Museum are located at the foot of "A" Street in Crescent City, California. This is an active lighthouse that serves as a private aid to navigation.

LAND ACCESS: Parking area at Battery Point accessible to 2WD, 4WD, and trucks

WATER LOGISTICS:

Limitations: depth, obstruction

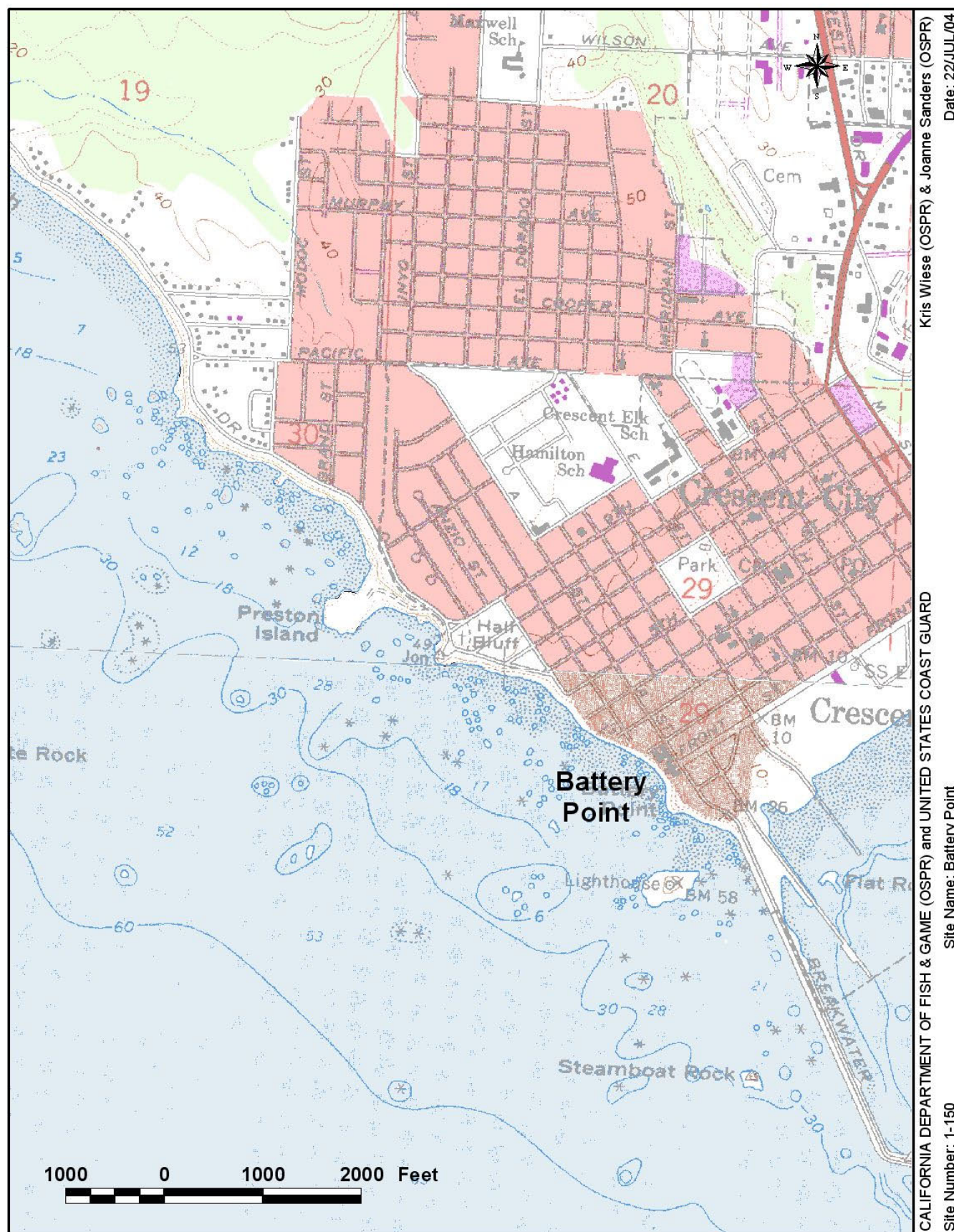
Launching, Loading, Docking Boats may be launched from several locations within Crescent City harbor.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

This area may also serve as a good staging area for large amounts of equipment.

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



Kris Wiese (OSPR) & Joanne Sanders (OSPR)

Date: 22/JUL/04

CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD

Site Name: Battery Point

Site Number: 1-150

1-155 -A Site Summary- Del Norte Coast Redwoods State Parks**1-155 -A**

County: **Del Norte**
USGS Quad: **Sister Rocks**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18603**

Latitude N
41 40'
Longitude W
124 08' 30"

Last Page Update :

SITE DESCRIPTION:

Offshore rocks, rocky headlands from Enderts Beach to Damnation Creek.

SEASONAL and SPECIAL RESOURCE CONCERN

Breeding seabirds will use these rocks for breeding in the spring.

RESOURCES OF PRIMARY CONCERN

The rocks are sensitive to human intrusion year round, and more so during nesting season while the parents are setting on eggs until the young have fledged from the nest.

Seabird rookeries (04-09): Brandt's and pelagic cormorants, Western gulls, Common murre, pigeon guillemots - adults present (01-12).

Double crested cormorant (CSC)(01-12)

-Breeding/nesting (03-09)

Marbled murrelets (FT,SE)(01-12) feed in open waters.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T		Prarie Creek Redwoods State Park	(707) 465-7347
T		Redwood National & State Parks	(707) 464-6101
T		California State Parks	(707) 445-6547
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-155 -A Site Strategy - Del Norte Coast Redwoods State Parks

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18603

1-155 -A

Latitude N

Longitude W

41 40'

124 08' 30"

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

The rugged coastline will prevent on shore response over most of this area. Off site measures including dispersants should be considered when a spill threatens to impact this area. Overflights should be careful to maintain flight path and altitude clearance distances that are large enough to prevent the flushing of birds and marine mammals from off of their roost and haul out sanctuaries on the off shore rocks in this area.

HAZARDS and RESTRICTIONS:

Extreme currents, offshore rocks, high energy shoreline, short steep beaches in some areas.

SITE STRATEGIES

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no	tvpe and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
--------------------	----------------	---------------	--------------------	--------------	-----------------	---------------	--------------	-----------------	---------------------	--	-----------------	---------------

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Take U.S. Hwy 101 S. from Crescent City. Exit onto Enderts Beach Road at MP 23.85. Continue to parking lot at end of road. Access to beach area via foot trails.

LAND ACCESS: Foot access only

WATER LOGISTICS:

Limitations: depth, obstruction

Launching, Loading, Docking

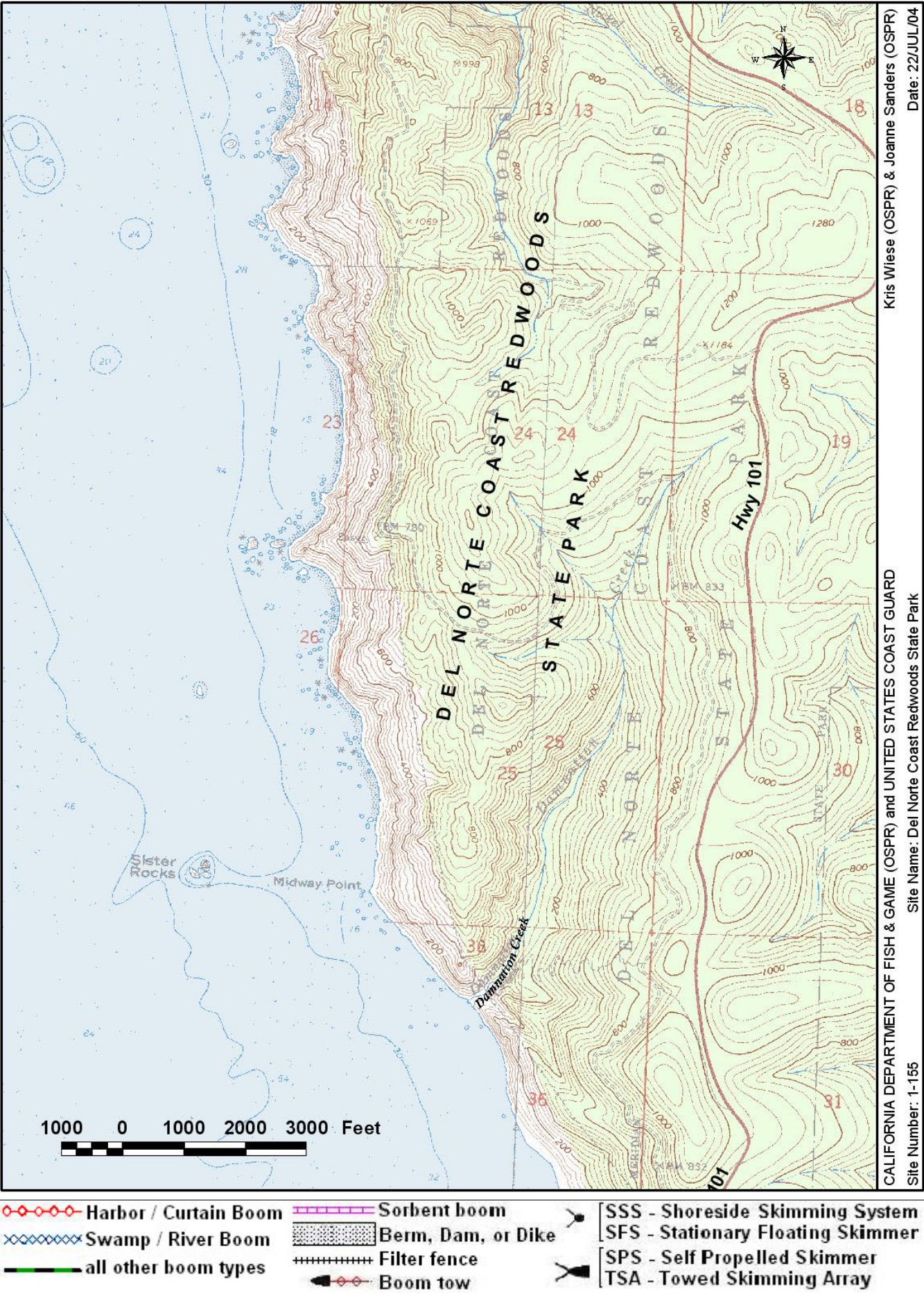
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:

Most of this area is difficult to access



1-160 -B Site Summary- Scat Beach

1-160 -B

County: **Del Norte**
USGS Quad: **Sister Rocks**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18603**

Latitude N Longitude W
41 40' 23" 124 08' 22"

Last Page Update :

SITE DESCRIPTION:

Exposed vertical seawall and offshore rocks. This area has extreme currents and high energy shoreline.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T		Prarie Creek Redwoods State Park	(707) 465-7347
T		Redwood National & State Parks	(707) 464-6101
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
O	Dr. Mabris	Pt. St. George Medical Clinic	(707) 464-3364
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-160 -B Site Strategy - Scat Beach

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18603

1-160 -B

Latitude N Longitude W

41 40' 23 124 08' 22"

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

No access, see site description below.

SITE STRATEGIES

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

None.

LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction

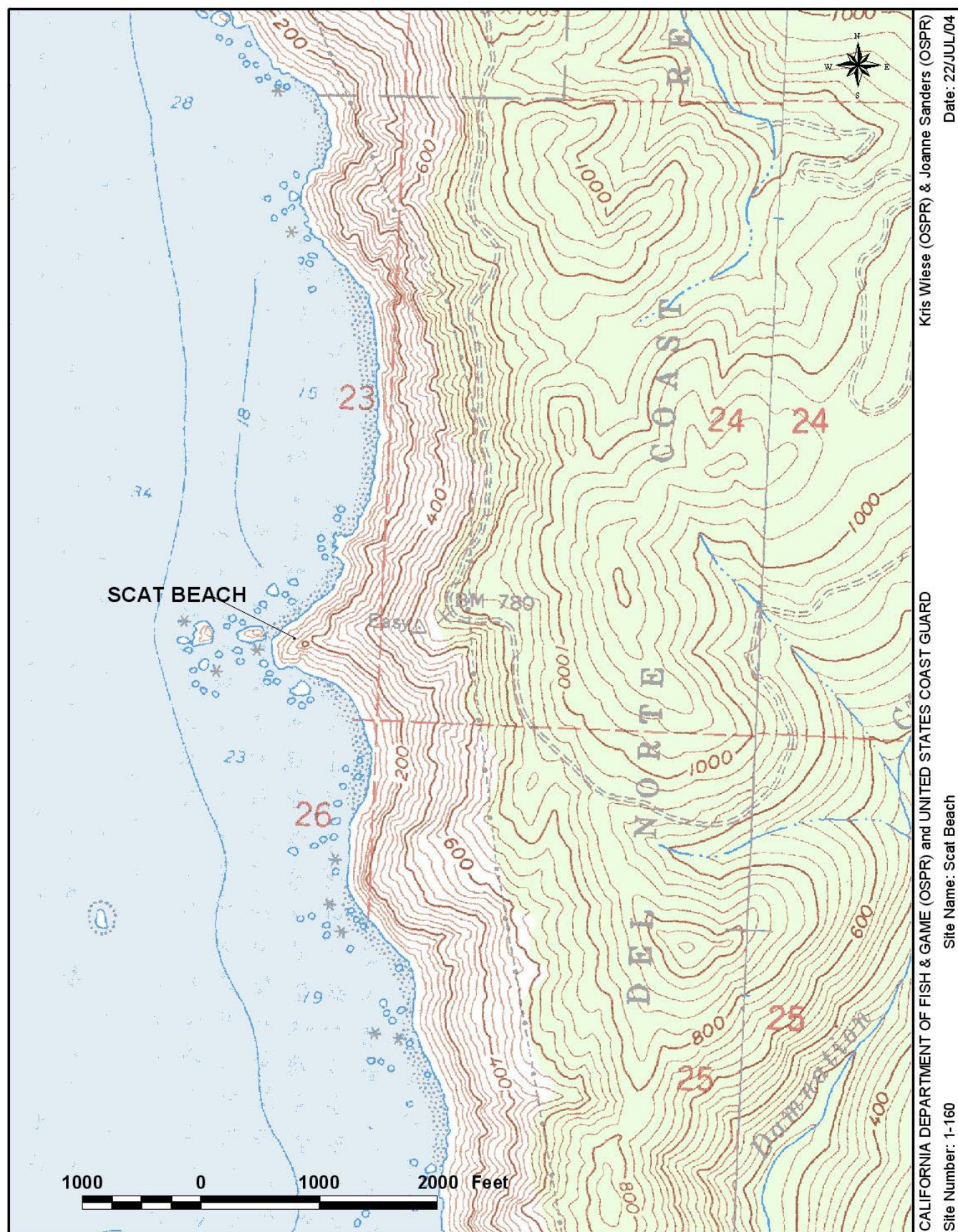
Launching, Loading, Docking

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



Kris Wiese (OSPR) & Joanne Sanders (OSPR)

Date: 22/JUL/04

CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD

Site Name: Scat Beach

Site Number: 1-160

○○○ Harbor / Curtain Boom
 ××× Swamp / River Boom
 — all other boom types

■ Sorbent boom
 ■ Berm, Dam, or Dike
 + Filter fence
 — Boom tow

SSS - Shoreside Skimming System
 SFS - Stationary Floating Skimmer
 SPS - Self Propelled Skimmer
 TSA - Towed Skimming Array

1-165 -C Site Summary- Last Chance Rock

1-165 -C

County: **Del Norte**
USGS Quad: **Childs Hill**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18600**

Latitude N Longitude W
41 38' 05" 124 07' 30"

Last Page Update :

SITE DESCRIPTION:

Offshore rocks. This site has a high energy shoreline and extreme currents.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T		Prarie Creek Redwoods State Park	(707) 465-7347
T		Redwood National & State Parks	(707) 464-6101
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-165 -C Site Strategy - Last Chance Rock

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18600

1-165 -C

Latitude N

Longitude W

41 38' 05 124 07' 30"

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Offshore rocks. See site description below.

SITE STRATEGIES

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Access by boat only.

LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction

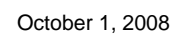
Launching, Loading, Docking

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



1-170 -A Site Summary- Footsteps Rocks to Radar Station Rocks**1-170 -A**

County: **Del Norte**
USGS Quad: **Requa**

Thomas Guide Location
CA Road Atlas
NOAA Chart: **18600**

Latitude N
41 35'
Longitude W
124 06'

Last Page Update :

SITE DESCRIPTION:

Offshore rocks, rocky headland, gravel beaches, tidal inlet.

SEASONAL and SPECIAL RESOURCE CONCERN**RESOURCES OF PRIMARY CONCERN**

The rocks are sensitive to human intrusion year round, and more so during nesting season while the parents are setting on eggs until the young have fledged from the nest.

Seabird rookeries (03-09): Common murre (>26,000 observed on False Klamath Rock), Brandt's and Pelagic cormorants, Pigeon guillemot, Western gull, Black oystercatcher - these spp. Present throughout year.

Double-crested cormorant (CSC), California brown pelican (FE,SE)(breeding/nesting (03-09)) roosts on False Klamath Rock

Raptors: Peregrine falcon (SE)(01-12)

Haul out areas near south end of this site

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T		Prarie Creek Redwoods State Park	(707) 465-7347
T		Redwood National & State Parks	(707) 464-6101
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-170 -A Site Strategy - Footsteps Rocks to Radar Station Rocks

1-170 -A

County and Thomas Guide Location

NOAA CHART

Latitude N

Longitude W

CA Road Atlas Del Norte

18600

41 35'

124 06'

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

High energy shoreline with extreme currents and offshore rocks.

SITE STRATEGIES

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Take U.S. Hwy 101 S. from Crescent City. Exit onto Enderts Beach Road M.P. 32.85. Continue to parking lot at end of road. Access by foot via Damnation Creek Trail to Footsteps Rocks. Access to Radar Station Rocks area via trail from NC-015-A.

LAND ACCESS: foot access only

WATER LOGISTICS: offshore rocks throughout area

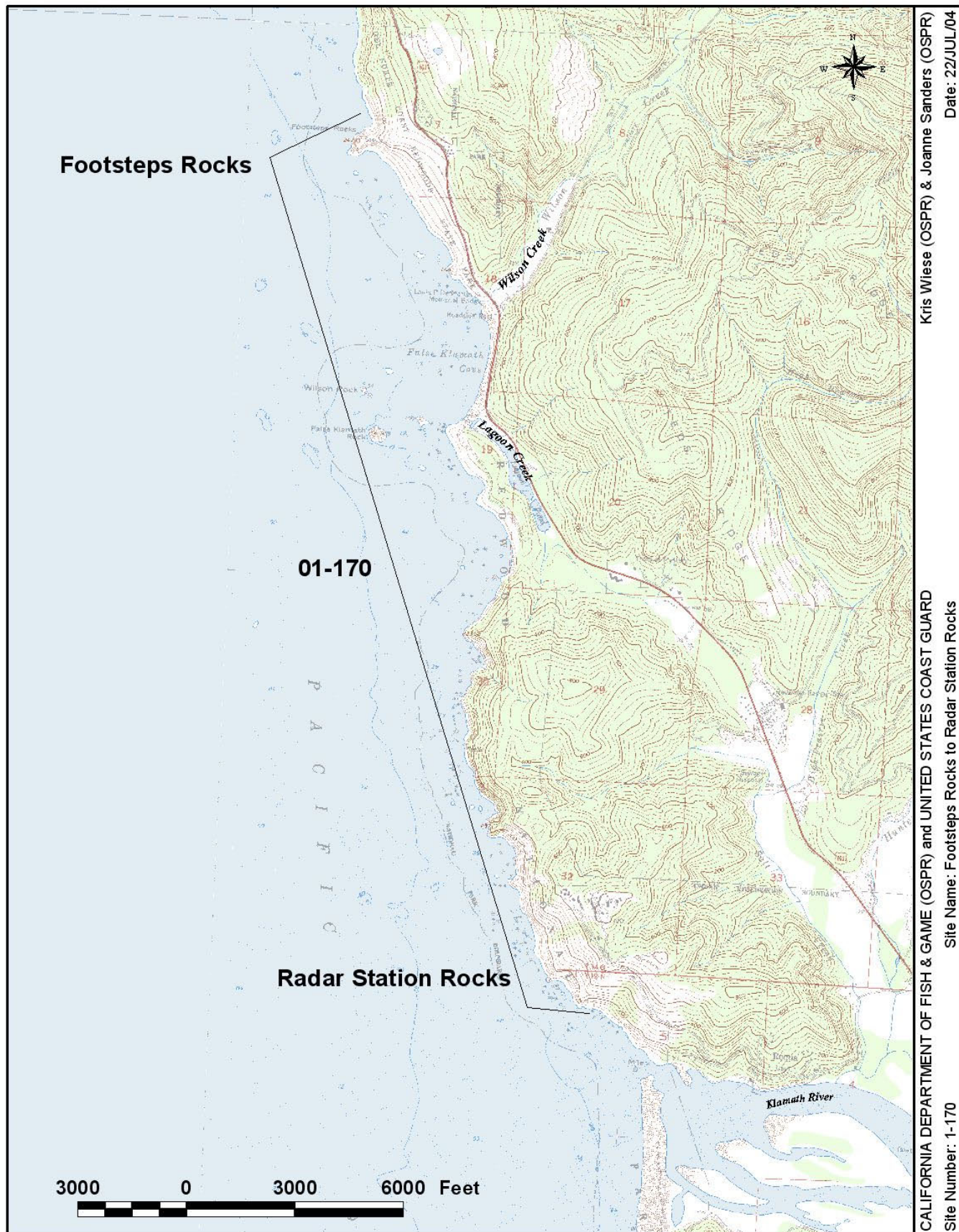
Limitations: depth, obstruction

Launching, Loading, Docking None nearby
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



Kris Wiese (OSPR) & Joanne Sanders (OSPR)

Date: 22/JUL/04

CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD

Site Name: Footsteps Rocks to Radar Station Rocks

Site Number: 1-170

○-○-○ Harbor / Curtain Boom

×-×-× Swamp / River Boom

— all other boom types

▤ Sorbent boom

▤ Berm, Dam, or Dike

++++ Filter fence

◀ Boom tow

SSS - Shoreside Skimming System

SFS - Stationary Floating Skimmer

SPS - Self Propelled Skimmer

TSA - Towed Skimming Array

1-175 -A Site Summary- Wilson Creek**1-175 -A**County: **Del Norte**USGS Quad: **Requa**

Thomas Guide Location

CA Road Atlas

NOAA Chart: **18600**

Latitude N

41 35' 45"

Longitude W

124 06'

Last Page Update :

SITE DESCRIPTION:

Course grain to granule beach.

SEASONAL and SPECIAL RESOURCE CONCERN**RESOURCES OF PRIMARY CONCERN**

Wilson Creek has anadromous salmonids

Shorebirds, seabirds, waterfowl.

California brown pelican (FE,SE)(04-11)

Harlequin duck (CSC)(01-04;09-12) mouth of Wilson Creek

Sea Lions present in area

Anadromous salmonids: Coho (FT) and Chinook (CSC) salmon. Steelhead (FSS) and Coastal cutthroat (CSC) trout.

- spawning runs (08-06)

- smolts/juveniles (02-08)

Surfsmelt spawn (03-07)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-175 -A Site Strategy - Wilson Creek

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18600

1-175 -A

Latitude N Longitude W

41 35' 45 124 06'

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Beach is steep during storm months (winter and early spring).

SITE STRATEGIES

Strategy 1-175.1 Objective: Pre-clean beach

Remove woody debris to above the high tide line before oil arrives.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
1-175.1	0	0	0	0	0	0	0	0	0		

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Alongside U.S. Hwy 101 about 15 miles south of Crescent City. Parking area for Wilson Creek Beach at M.P. 12.642 is immediately off highway 101 on the west side. Lagoon Creek is located about 100 yards to the south, and the parking area is adjacent to the lagoon. Parking is also available to the east off hwy 101 at the Youth Hostel.

LAND ACCESS: All vehicle access to parking lot

WATER LOGISTICS: currents can be strong esp. during winter

Limitations: depth, obstruction

Launching, Loading, Docking

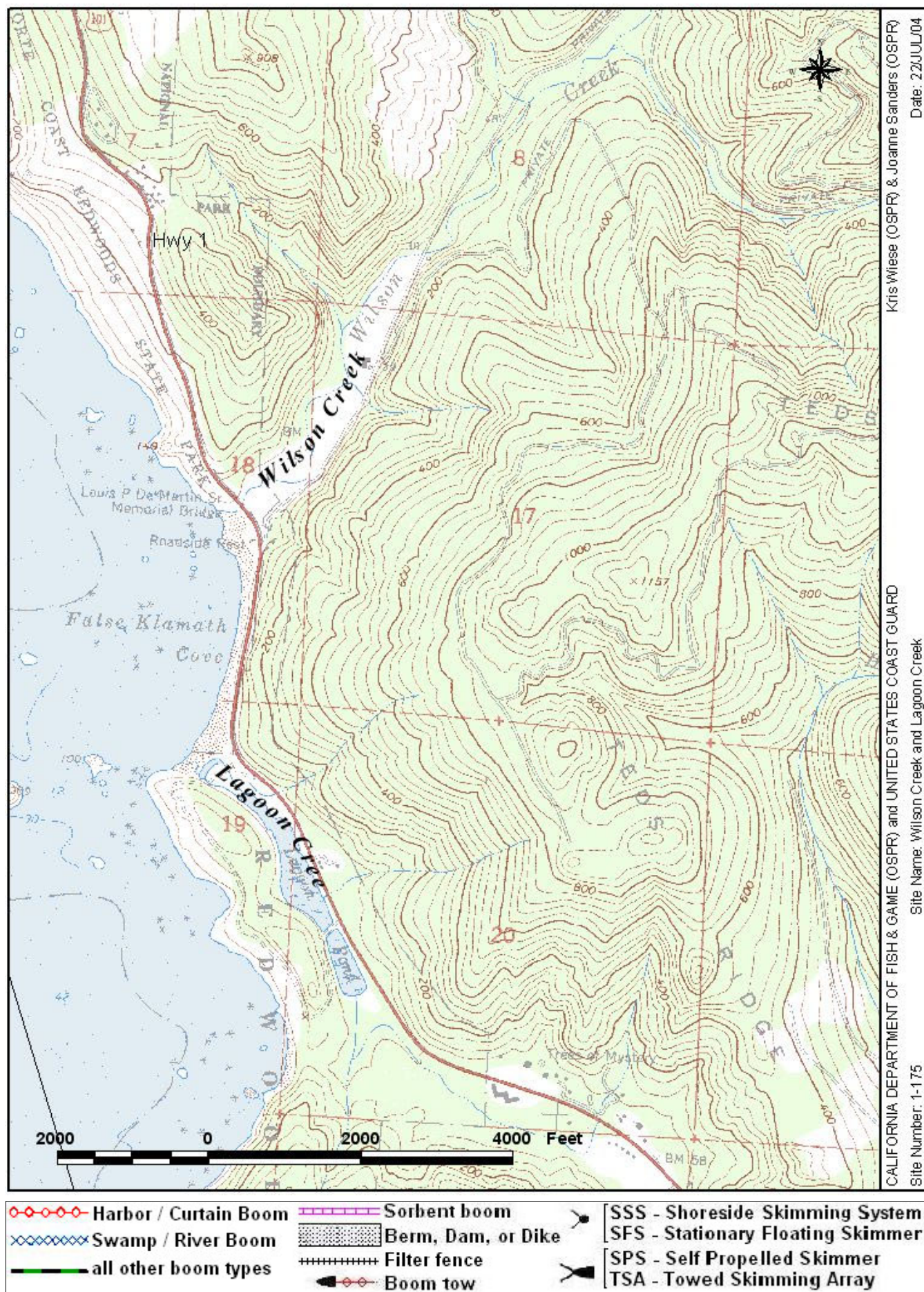
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Lagoon Creek is a maintained recreation area with permanent restroom facilities and parking lot large enough to accommodate tractor-trailer rigs. The parking at Wilson Creek could support local response staging needs, but lacks utilities.

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



County: **Del Norte**
 USGS Quad: **Requa**

Thomas Guide Location
 CA Road Atlas
 NOAA Chart: **18600**

Latitude N Longitude W
 41 32' 30" 124 05'

Last Page Update : 7/1/1996

SITE DESCRIPTION:

Fine to medium grained sand beach. The mouth of the river may migrate over a period of years from the north or south end of the beach to the opposite end, a distance of approximately 1.5 miles.

SEASONAL and SPECIAL RESOURCE CONCERN

Native American subsistence and com'l salmon fisheries active seasonally in this river. Gillnets and other equipment placed around shoreline. Contact BIA for assistance.

RESOURCES OF PRIMARY CONCERN

Tidal inlet

Coastal seabirds, shorebirds, wading birds, waterfowl incl. Grebes and loons (01-12)

Raptors: Bald eagle (SE), Peregrine falcon (FE,SE), Osprey (CSC) all (01-12)

California brown pelican (FE,SE)(04-11)

Pacific harbor seal haul outs in area, Steller sea lions (FT) seasonal; immature of both species may be present at any month along the shore.

River otters

Fish: Anadromous salmonids Coho (FT) and Chinook (CSC) salmon, Steelhead (FSS) and Coastal cutthroat (CSC) trouts

- spawning runs (08-06)

- juveniles/smolts (03-08)

Anadromous fish: Green sturgeon larvae and juveniles in estuary

Pacific lamprey run upstream along shore, juveniles and larvae live in gravels

Tidewater goby (FE)(01-12)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T		US Fish and Wildlife Service	(707) 822-7201
C	Dr. Thomas Gates	Yurok Tribal Historic Preservation Officer	(707) 442-1822
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-180 -A Site Strategy - Klamath River Mouth and Estuary

1-180 -A

County and Thomas Guide Location

NOAA CHART

Latitude N Longitude W

CA Road Atlas Del Norte

18600

41 32' 30 124 05'

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

The river mouth migrates and roads and parks may not be accessible. Roads on both sides of the river are narrow and winding in spots.

SITE STRATEGIES

Strategy 1-180.1 Objective: Exclusionary booming & oil collection on incoming tides with low river flows.

During lower summer flows, boom across the mouth to corral oil out of the current and onto the accessible shore for collection. Defenders will need to assess the prevailing conditions to determine the best placement of boom.

Strategy 1-180.2 Objective: Evaluate the current river status

Conduct either an overflight or a quick site visit to determine both the stage of outflow in the Klamath River and the physical configuration of the river mouth before assigning assests for clean up duties.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
1-180.1		2000	0	0	12 40 lb Danforth	2	0	1 sfs	0	8	4
1-180.2	0	0	0	0	0	0	0	0	1 Helicopter		

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go north from Eureka on U.S. Hwy 101. The south side of the river and Klamath Cove R.V. Park are accessible from the Mouth of the Klamath Road at M.P. 4.038, just south of the Klamath River bridge. Exit east and turn west under the hwy. The north side of the river is accessible via Requa Road on the north side of the bridge at M.P. 4.424. Exit east and follow signs to Requa Resort and Café (Mouth of Klamath Road) or Klamath River boat ramp (old town site).

LAND ACCESS: Private property issues - contact D.N. Sheriff's Dept., BIA

WATER LOGISTICS: Private property issues - contact D.N. Sheriff's Dept., BIA

Limitations: depth, obstruction

Launching, Loading, Docking

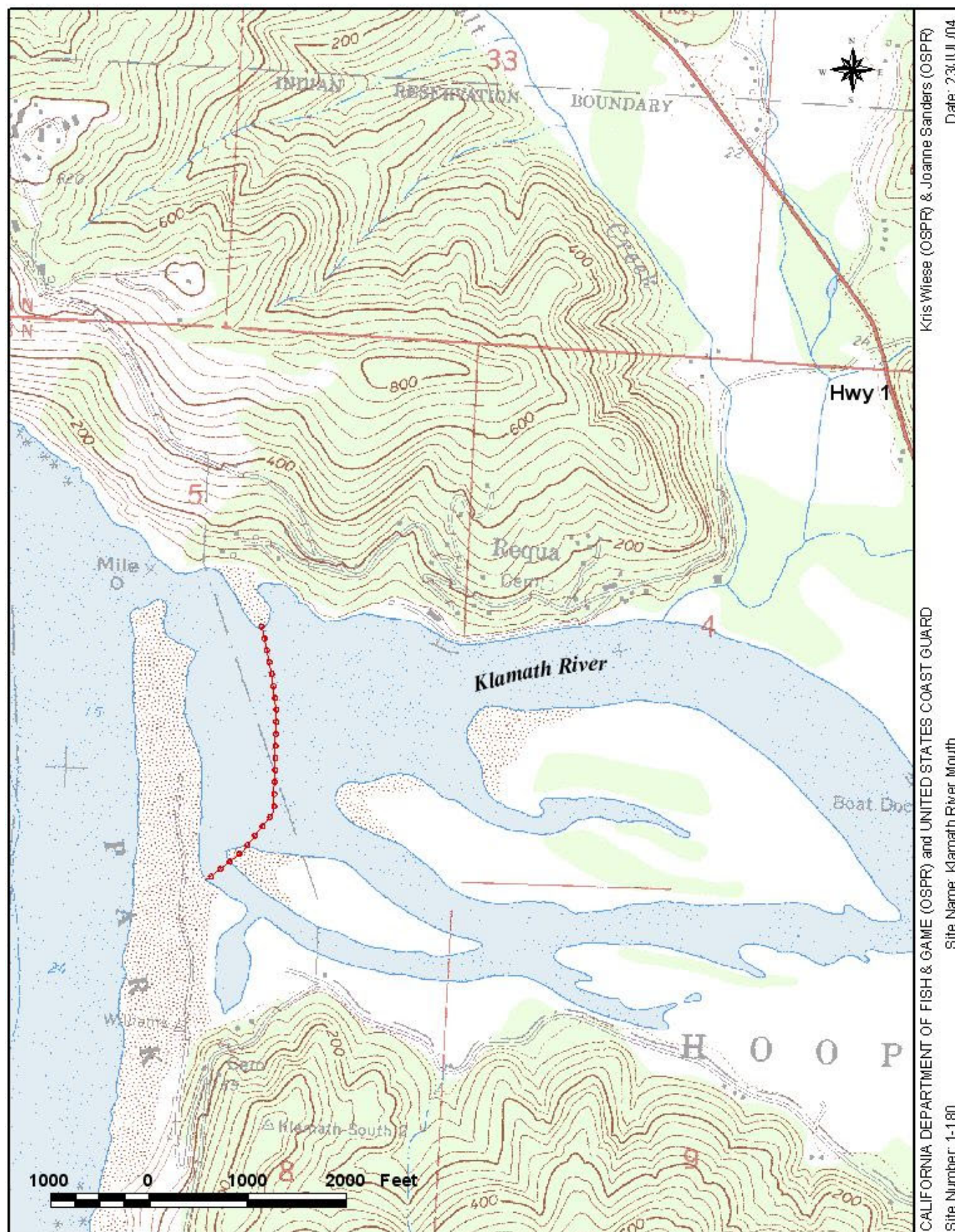
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

The parking lot on the north side of the river is large enough to provide staging to serve the local area. Water, Port-o-lets and a boat ramp make this a good site for emergency occupation. Fuel, a small store, and campgrounds are all near by. 20+ miles from pre-staged equipment

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



Kris Wiese (OSPR) & Joanne Sanders (OSPR)

Date: 23JUL04

CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD

Site Name: Klamath River Mouth

Site Number: 1-180

◇◇◇◇◇ Harbor / Curtain Boom
 ◇◇◇◇◇ Swamp / River Boom
 — all other boom types

■ Sorbent boom
 ■ Berm, Dam, or Dike
 + Filter fence
 — Boom tow

SSS - Shoreside Skimming System
 SFS - Stationary Floating Skimmer
 SPS - Self Propelled Skimmer
 TSA - Towed Skimming Array

1-185 -A Site Summary- Flint Rock and White Rock**1-185 -A**County: **Del Norte**

Thomas Guide Location

Latitude N

Longitude W

USGS Quad: **Requa**

CA Road Atlas

41 30' 30"

124 05'

NOAA Chart: **18600**

Last Page Update :

SITE DESCRIPTION:

White Rock - offshore

Flint Rock - exposed rocky cliffs/headland.

SEASONAL and SPECIAL RESOURCE CONCERN**RESOURCES OF PRIMARY CONCERN**

The rocks are sensitive to human intrusion year round, and more so during nesting season while the parents are setting on eggs until the young have fledged from the nest.

A. Seabirds: Pelagic cormorant, Western gull, Pigeon guillemot, Double-crested cormorant (CSC) all (01-12).
California brown pelican (FE,SE)(04-11), Peregrine falcon(SE)(01-12)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T	Rick Hanks Manager	California Coast National Monument	(831) 372-6105
O	Troy Nicolini	National Weather Service Woodley Island	(707) 443-0574

ADDITIONAL SITE SUMMARY COMMENTS:

1-185 -A Site Strategy - Flint Rock and White Rock

County and Thomas Guide Location

CA Road Atlas Del Norte

NOAA CHART

18600

1-185 -A

Latitude N

Longitude W

41 30' 30 124 05'

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Extreme currents in area. High energy shoreline, and offshore rocks.

SITE STRATEGIES

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

No access.

LAND ACCESS: None

WATER LOGISTICS: No access.

Limitations: depth, obstruction

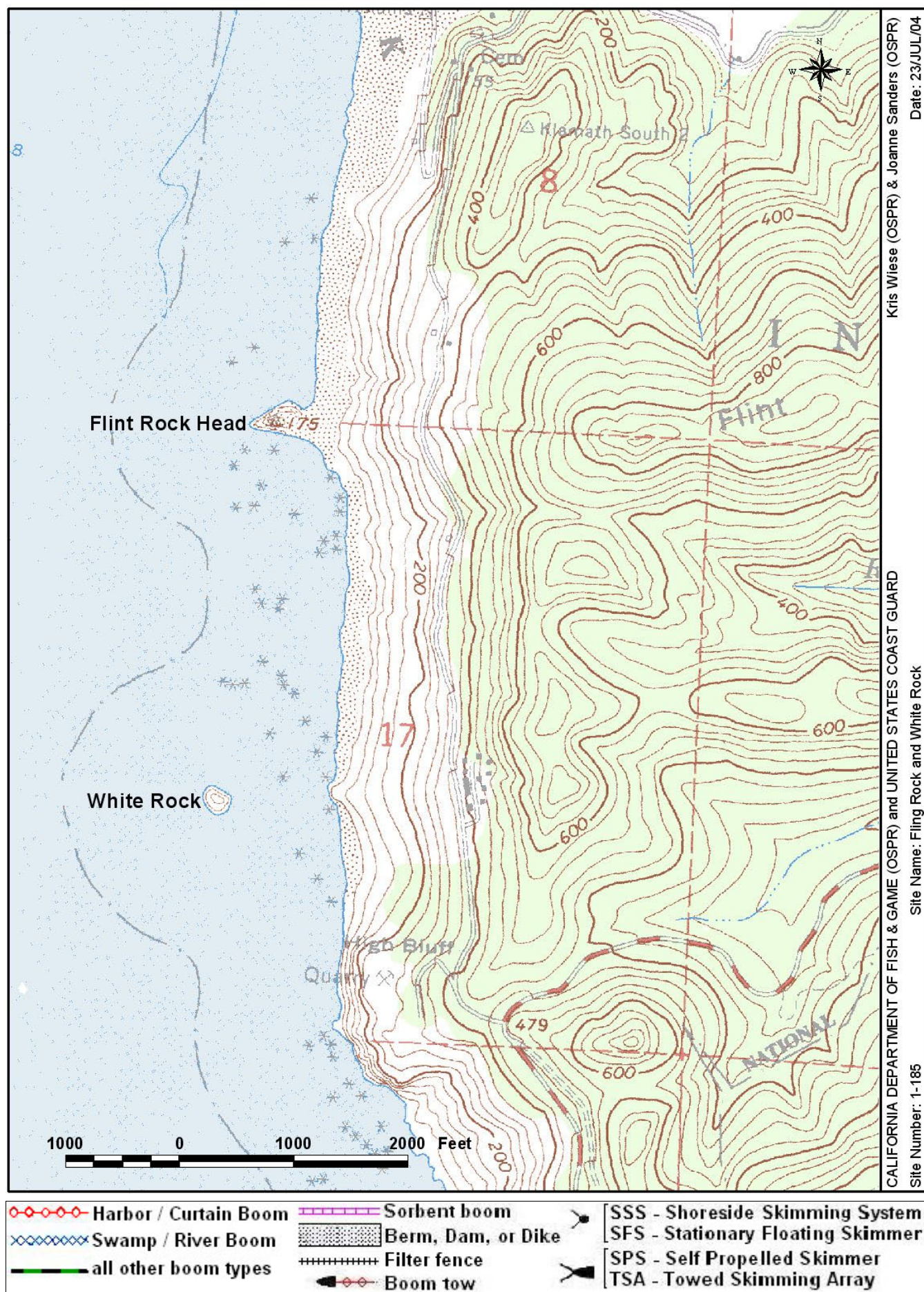
Launching, Loading, Docking

and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:

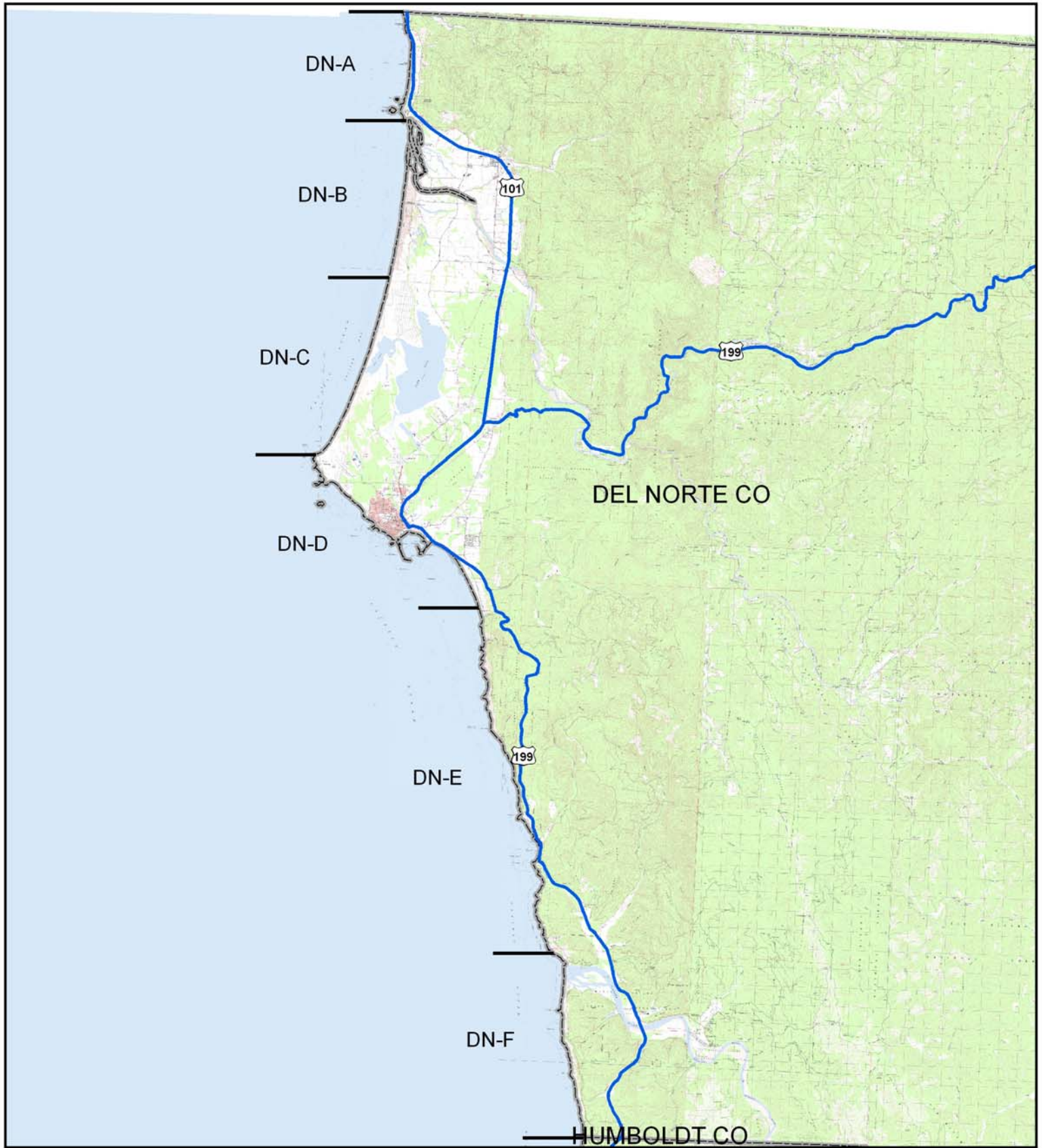


Kris Wiese (OSPR) & Joanne Sanders (OSPR)
Date: 23/JUL/04

CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Name: Flint Rock and White Rock
Site Number: 1-185

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Del Norte County Operational Divisions



Legend

— Shoreline Operational Divisions

0 2.5 5 10 Miles

Source: K. Wiese

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